

# Good questions:

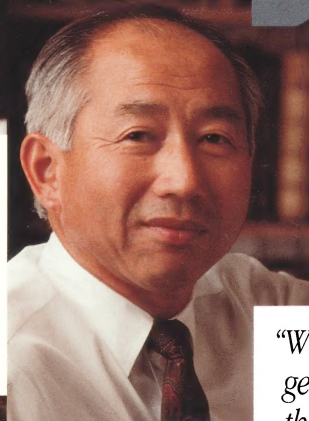
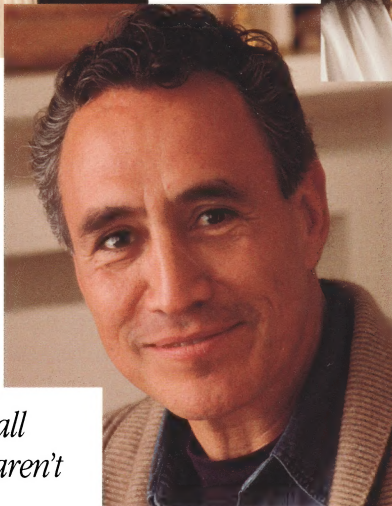
*"Could we please  
hire somebody  
just to schedule  
meetings?"*



*"When can  
we publish  
on the  
Internet?"*

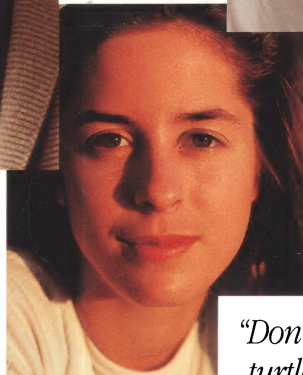


*"Did you  
get the file  
I sent?"*



*"What can we do to  
get everybody to use  
the same version of  
the same program?"*

*"How come all  
of our files aren't  
backed up  
automatically?"*



*"Don't you think  
turtles crawl faster  
than mail travels  
over our network?"*



# Great answers: The Workgroup Servers from Apple.

File sharing? Software updates? Internet access? Backups?  
E-mail? Speed?

They start out as simple questions about the capabilities  
of your network.

Then they get more pointed.

Pretty soon, they're pointed at you.

If your business depends on your personal computer  
network, then it's likely you need servers that you can  
depend on.

Good news. The Workgroup Servers from Apple are  
reliable, fast, and phenomenally easy to set up and use.

They're designed to deliver particularly sensible  
answers to some particularly complicated productivity  
questions. From day one, they perform very useful tasks,  
such as delivering e-mail, keeping track of customer lists,  
routing print jobs, scheduling meetings, and backing up  
your computers nightly.

They also make it very easy for users of both Apple®  
Macintosh® computers and PCs running Microsoft  
Windows to share files and printers on your network.

## **Yes. Expandability is built in.**

From a hardware standpoint, Workgroup Servers include high-speed  
PowerPC™ microprocessors, up to 264 megabytes of RAM, and 256 kilobytes  
or 1 megabyte of level 2 cache memory—all of which make optimized data-  
base, office productivity, and publishing client/server applications scream.

Every Workgroup Server includes one or two large-capacity hard disks—  
from 700 megabytes to 4 gigabytes each—with expansion capabilities for even  
more file storage. And they also include high-speed Ethernet connections—  
no cards to add or software to install—so you can plug them right into your  
Ethernet network.

An internal digital audio tape (DAT) drive for tape data backup is available  
with some Workgroup Servers as an option.

## **Yes. You get up to \$4,600\* worth of software.**

From a software standpoint, just about everything you need to set up, run,  
and administer a Workgroup Server is built right in. You get the world's most  
intuitive, easy-to-use, common-sense operating system—the Mac™ OS. It  
makes a server as easy to use as a desktop Macintosh.

In addition, you get all the useful workgroup productivity and server  
administration software featured below when you open the Workgroup  
Server box.

And while that's a considerable amount of software included with your  
Workgroup Server, you'll want to take a look at the other server software  
solutions available from Apple and other companies.

You'll see some of them in the coming pages.

\*This suggested total combined retail price is for all software included with Workgroup Server configurations  
that come with a DAT drive and AppleShare software. For all other configurations, the total combined  
retail price of the software included is \$2,300.



### **Viper Instant-Access from IT Design**

Now your group can have fast access to  
information such as company telephone  
directories and product price lists. An  
important feature is centralized control;  
the system administrator can change this  
information, while users can only view it.

### **Retrospect Remote from Dantz Development**

Backups and file archiving just became  
automatic with this software and a  
Workgroup Server with a DAT drive.  
You can schedule unattended backups at  
night, and users are notified of file back-  
ups in the morning. This software also  
restores files over the network.

### **FileWave from Wave Research**

Banish software-version incompatibility  
problems from your network. Now you  
can automatically distribute and  
install software upgrades on everyone's  
networked Macintosh computer—  
simultaneously—from your desk.

### **Now Up-to-Date from Now Software**

If you've ever tried to schedule a group  
meeting, you'll love this software. It  
automatically schedules group meetings,  
reminds everyone of appointments,  
and produces printed pages for leading  
paper-based organizers, such as  
Day-Timer and DayRunner.



#### **Workgroup Server 6150/66**

*The Workgroup Server 6150/66 is the economical PowerPC processor-based server that's great for small businesses, departments within large businesses, schools, and classrooms. It comes with a variety of helpful software (see descriptions below) and offers an internal NuBus™ expansion slot, a SCSI bus for connecting up to seven devices, and eight ports for peripherals.*

#### **Workgroup Server 8150/110**

*The Workgroup Server 8150/110 is the midrange PowerPC processor-based server that's perfect for most medium-size workgroups in education, business, and publishing. It includes a variety of software, three NuBus expansion slots, a digital audio tape (DAT) backup drive option, two SCSI DMA buses for connecting up to nine devices, and nine ports for peripherals.*

#### **Workgroup Server 9150/120**

*The Workgroup Server 9150/120 is the fastest and most expandable of Apple's PowerPC processor-based servers. It's the workhorse you need for demanding desktop publishing and office applications. It's the fastest AppleShare server ever. And it's ultra-expandable, with four NuBus slots and one processor-direct slot, space for up to five internal hard disk drives, an optional DAT backup drive, and two SCSI DMA buses for connecting up to 14 devices. Both the Workgroup Server 8150/110 and 9150/120 are expandable to a whopping 264 megabytes of RAM.*

Please see the complete comparative specifications on the back cover of this brochure.



#### **Now Contact from Now Software**

*With Now Contact, everyone in your group can easily share mutual contacts, such as sales prospects. It sorts and retrieves lists of related contacts, and keeps a history for every contact.*

#### **Apple RAID Software**

*For data reliability and integrity, this software is a lot like an insurance policy. It automatically stores or "mirrors" your server's information on two hard disks simultaneously. It can also improve performance by striping data.*

#### **Server Manager from Santorini**

*Included with all Workgroup Servers that come with AppleShare, Server Manager from Santorini allows you to administer AppleShare servers from remote locations.*

#### **AppleShare Client for Windows**

*For workgroups with both Macintosh and Windows users, this software allows Windows clients to access files and applications on your AppleShare server and print to network printers.*

#### **Adobe™ Acrobat™ Reader**

*Now everyone on your network can view and print documents—including graphics—without actually having the fonts or the applications that created them.*



# How can a Workgroup Server help you get more work done in a day?

Network productivity issues can generate lots of complicated questions. The Workgroup Servers from Apple are engineered specifically to make answering those questions a simple task.

## **Can servers help us get more work done without hiring a network administrator?**

Absolutely.

That's precisely the reason Apple offers AppleShare software and the Mac OS as the network operating system for Workgroup Servers.

AppleShare is file and print server software for cross-platform AppleTalk® networks. It offers an affordable, easy-to-use, easy-to-manage way to centralize shared files and applications, which gives everyone on your network quick, easy access to information. In fact, it's so easy to use that you won't need a dedicated network manager. If you're adept at using a Macintosh, you can quickly become a network manager and still be able to do your regular job.

In the future, Apple will also offer Novell NetWare with PowerPC processor-based Workgroup Servers. This offering will give network managers with different needs the ability to choose the network operating system that best suits their environment: the Mac OS and AppleShare, or Novell NetWare for PowerPC.

## **Will AppleShare speed up our work?**

You bet.

The new AppleShare 4.1 software—designed specifically for PowerPC processor-based Workgroup Servers—can help people work together far more efficiently.

This new version of AppleShare runs almost twice as fast as previous versions. It puts project files in common areas where people who need them can get their hands on them faster. And it includes security features that keep out unauthorized people.

In addition, AppleShare speeds up work for the person acting as a manager for your network, because no in-depth training is required. The network manager can set up AppleShare and have it running in 15 minutes.

Workgroup Servers with AppleShare also come with Server Manager software from Santorini, which allows one person to monitor, control, and administer one or more servers from a single location—even a remote location.

## **Some people in our group use PCs running Windows. Can they connect to the server?**

No problem.

AppleShare Client for Windows software makes it possible for people using PCs running Windows to connect to AppleShare servers, share files, and even use AppleTalk network print services.

And because AppleShare Client for Windows is a Windows software-based product, users work within the Windows environment they're accustomed to, which means practically no training is required.

## **What good is a server when we're on the road?**

Lots.

As it turns out, your Workgroup Server can be a very good friend indeed when you're on the road—and in need.

With a modem and Apple Remote Access software running on your PowerBook® computer and on your Workgroup Server, you're in luck. Apple Remote Access turns any standard phone line in the world into a direct connection to all the file servers, services, printers, and people on your AppleTalk network.

## **When everybody puts everything on the server, how do we find anything?**

Simple.

With ingenious software called AppleSearch,\* which is designed to answer that question, and a lot of others.

AppleSearch lets everybody on the network search through documents for specific content—regardless of format or source. It gives all users access to all the file servers on the network, as well as to on-line news feeds, and even to Wide Area Information Servers (WAIS) on the Internet.

People can define search questions or “queries” in their own words—in plain English—and electronic AppleSearch agents called “reporters” will conduct the searches as requested.



### **E-mail**

Using QuickMail, First Class, or other electronic-mail software, Workgroup Servers can pick up mail and files from—and deliver them to—everyone in your organization.

### **Cross-Platform Access**

AppleShare makes it easy for networked Mac OS and Windows software-based computers to access files, applications, and printers.

### **Scheduling**

With scheduling software such as Meeting Maker or Now Up • to • Date, Workgroup Servers can be used to reserve rooms and arrange meetings at times when everyone is available.

### **Contacts**

Teachers, administrators, and salespeople will appreciate the ability to share contact information, phone directories, and on-line data using software such as Now Contact.

### **Databases**

With FileMaker Pro Server, ACI 4D Server, or Everyware Butler, Workgroup Servers can control shared databases for everything from customer profiles to student records.

### **Apple Internet Router**

Gives you the ability to increase the size of your LocalTalk, Ethernet, and Token Ring networks, and manage them more easily.





Graphic designers put their systems to the test every second of every day. So improvements that deliver productivity gains to everyone in a workgroup can make an even bigger difference in a design office. And that's the difference between barely meeting deadlines and beating them.

#### How can servers help us get work done faster?

By centralizing your files and applications, a Workgroup Server running AppleShare makes it easier for people to collaborate. It puts your most recent project revisions where everybody can easily find them. So everyone spends time working, instead of looking for files they need to do their work.

And Apple Remote Access makes it possible for you to collaborate with people anywhere in the world via a telephone line. For example, if you're in an office in Rome and your client is in New York, you both can view the same layout on your screens and make changes that both of you can see—simultaneously. Considering the time, money, and express courier costs typically incurred in doing business today, AppleShare and Apple Remote Access easily pay for themselves the first time you use them.

#### We need to put all our images in one place, so anybody—including my grandmother—can find them. How?

Image database software such as Canto Cumulus PowerPro offers ingenious ways to find a single image in a database of thousands of photos. It catalogs all images into one database, so searches take seconds instead of hours.

Your image database can even be searched from within programs such as QuarkXPress, Adobe Photoshop and PageMaker, Frame Technology FrameMaker, IsoDraw, MacVONK RagTime, and Canto Cirrus PowerPro. A thumbnail of the image and its descriptive information is stored in the catalog, so off-line volumes can also be browsed using keywords, status, and retrievable notes.

#### Working with 24-bit color images can be painfully slow. Can a server help us?

Most definitely.

Open Pre-press Interface (OPI) server software such as Adobe Color Central running on a Workgroup Server performs two incredible time-saving functions: image swapping and print services.

Image swapping is the electronic equivalent of manually replacing "for position only" photos with the real things.

It means you can do all of your design work on the screen with small, easily manipulated, low-resolution "for position only" images.

When it's time to output the file to an imagesetter, a printer, or another device, this software automatically replaces the low-resolution images with their 24-bit, high-resolution counterparts.

#### Can a server speed up printing?

Yes.

Adobe Color Central performs the simple but invaluable print queuing function for QuarkXPress, Adobe PageMaker, and Adobe Photoshop jockeys.

When you choose Print for a big color file, you can now continue working instead of going for coffee. Because Color Central temporarily stores the file on the server in a queue and sends it to your choice of printers, allowing you to go on to the next project—instead of waiting for your document to print.

This feature also eliminates time spent waiting for other people using the printer.

#### Archiving

The Canto Cumulus PowerPro software program can help you by archiving, indexing, and retrieving up to 50,000 images and multimedia formats.

#### Image Swapping

Adobe Color Central software saves time because you work with low-resolution files on screen, and it automatically swaps them for high-resolution files when it comes time to output them.

#### Printing

Adobe Color Central also takes the waiting out of printing. It stores and manages your jobs on the server, so it allows you and your computer to go on to other work.

#### File Sharing

AppleShare lets word people and graphics people easily store and find their shared work files on a server. So you no longer have to hunt through cartridges, floppy disks, and hard disks to find the latest version of a project file.

#### Workflow

Your projects run more smoothly when you use high-performance database software such as FileMaker Pro Server from Claris to set up a workflow management system.



# Would you like to publish on the Internet?



If you can run a Macintosh computer and click the "Install" button, you can now publish on the Internet—for less than half the cost of doing so with a UNIX-based server. Because it's not a UNIX-based server. It's a Mac OS software-based server.

Which means your home page can be up and running in minutes instead of weeks. And the Apple Internet Server Solution comes with templates to get you started creating interactive World Wide Web pages very quickly.

It just became very easy to make your products and services available to a world of people who can use them. And better yet, buy them.

Call it publishing. Creating a home page. Or establishing a presence on the World Wide Web.

It means the same thing.

It's the electronic equivalent of the California Gold Rush. To stake your claim, you need an Internet server.

And until today, that has meant you needed to be (or hire) a highly proficient UNIX expert. And have a very large budget for installation and maintenance.

No more.

Introducing the Apple Internet Server Solution for the World Wide Web. It's an all-in-one World Wide Web solution that consists of Workgroup Server 6150/66, 8150/110, or 9150/120, and a CD-ROM that contains all the software you need to get started.

Think of it as a World Wide Web server in a box.

And the good news is that you don't need to be a UNIX nerd. You don't have to hire one. You don't even have to know one.

## Why publish on the Internet?

Because 35 million people are already connected to the Internet. Because the World Wide Web is the fastest-growing segment of the Internet.

Because it's a worldwide audience for your products and services. Because potential customers come to you, so it's far less expensive than many other ways of marketing. Because all of your competitors are doing it. And because there is no waste—your messages are read by people who are interested in them.

## What other software do I need?

Just about none.

Because everything you need is on a CD-ROM that comes with the Apple Internet Server Solution.

We've included applications that allow you to create new documents specifically for the World Wide Web, to publish existing documents (for example, Adobe PageMaker or QuarkXPress files), and to serve interactive data to World Wide Web clients.

You get all this: StarNine WebSTAR server software (formerly MacHTTP); MacDNS™ (a domain name server for the Mac OS) from Apple\*; BBEdit from Bare Bones Software; Adobe Acrobat Pro; Netscape; AppleSearch; player versions of HyperCard®, Claris® FileMaker® Pro, and Everywhere Butler SQL;

\* MacDNS will be available in the summer of 1995.

### StarNine WebSTAR

StarNine WebSTAR server software turns a Workgroup Server into a World Wide Web server that supports any client, including systems running Windows, the Mac OS, UNIX, and the Newton® operating system.

### BBEdit

BBEdit from Bare Bones Software is a HyperText Markup Language (HTML) editor that lets you create HTML documents anyone on the World Wide Web can read and use, no matter what kind of computer they're using.

### Adobe Acrobat Pro

Use Adobe Acrobat Pro for immediate posting of your documents—with all original formatting intact—on the World Wide Web. It's a great tool for publishing existing content.

### Netscape

Netscape World Wide Web browser software lets you view your own content on the World Wide Web (single-user license).

### MacDNS

MacDNS software allows surfers to find your home page. It translates domain names to Internet Protocol (IP) addresses, and vice versa. It also allows a World Wide Web site with heavy traffic to add multiple redundant servers to handle the load.



Common Gateway Interfaces (CGIs) for AppleSearch, each database, clickable maps, and e-mail; and customizable sample World Wide Web pages to get your site up and running quickly. Details of each software component can be found below.

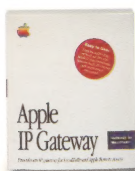
### Can Windows users publish information on the World Wide Web using the Apple Internet Server Solution?

Sure.

Windows users can publish information on the World Wide Web with the help of the AppleShare Client for Windows software included with the Apple Internet Server Solution, as long as AppleShare software is also running on the server. The only other requirement is that the Windows users have Windows-based software to create World Wide Web pages.

### What other software might I want?

The Apple IP Gateway.



This software works as a translator between the AppleTalk protocol that your local network uses and the TCP/IP protocol that the Internet uses.

The result? Every Macintosh on your AppleTalk network can gain access to the Internet, as long as you have an established Internet connection.

### Is the Apple Internet Server Solution fast enough and powerful enough to handle heavy traffic on the World Wide Web?

Positively.

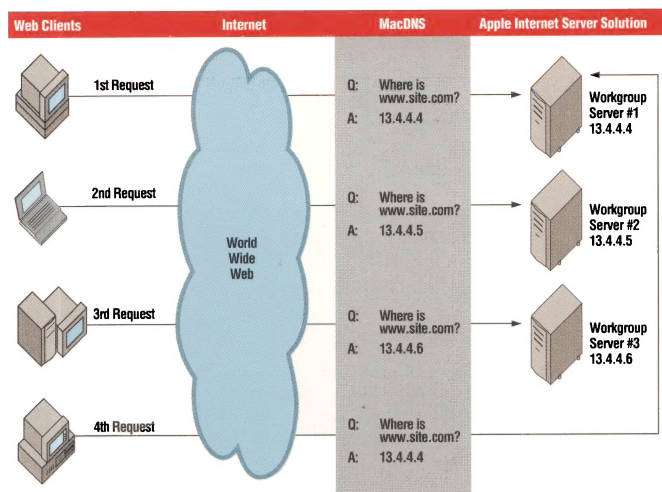
Workgroup Servers are available in 66-, 110-, and 120-megahertz models, giving you a range of speed options at prices designed to fit your budget.

And all Workgroup Servers can process 3,000 to 5,000 connections per *hour*. Which should be more than enough, considering that a typical World Wide Web site handles this many connections per *day*.

Should your World Wide Web site prove exceptionally popular, you can easily increase the performance of your server by adding more Workgroup Servers with MacDNS (see the diagram, top right).

*With the Apple Internet Server Solution, we've included customizable World Wide Web pages to help you build your site. A sample home page and pages for a seminar calendar, a product catalog, service and support, and e-mail also come with the server.*

### Increasing Apple Internet Server Solution Performance with MacDNS



*With MacDNS, multiple redundant Workgroup Servers—acting as one Apple Internet Server Solution—can be installed to handle exceptionally high World Wide Web traffic. If three Workgroup Servers are set up, they handle incoming requests as follows: the first request is processed by the first Workgroup Server; the second by the second Workgroup Server; and the third by the third Workgroup Server. The fourth request is sent to the first Workgroup Server, starting the cycle again. MacDNS allows users to gradually and cost effectively add more processing power to their World Wide Web site—if and when they need it.*



### AppleSearch

AppleSearch makes it easy to index all of your files on your World Wide Web server and make them searchable by surfers (via the AppleSearch CGI). It's a great way to let people get the exact information they're looking for simply and quickly.

### HyperCard, Claris FileMaker Pro, and Everyware Butler

HyperCard, Claris FileMaker Pro, and Everyware Butler SQL database software (with sample data for each) serves dynamic data to World Wide Web clients. We've included databases that will take care of a variety of needs.

### Common Gateway Interfaces

Common Gateway Interfaces (CGIs) are programs that extend the capabilities of WebSTAR. They let you build and serve information from databases and other applications to World Wide Web clients. We've included CGIs for databases, clickable maps, e-mail, and AppleSearch.

### Apple RAID Software

Apple RAID Software increases data reliability (via mirroring), and Dantz Retrospect Remote backs up your Internet server. (Retrospect Remote is included with the Workgroup Server 9150/120 only).



# Answers to questions about Workgroup Servers.



	Workgroup Server 6150/66	Workgroup Server 8150/110	Workgroup Server 9150/120	Apple Internet Server Solution
<b>Expansion</b>	Expansion slot for 7-inch NuBus card or processor-direct card (requires adapter)	Three NuBus expansion slots; one processor-direct slot	Four NuBus expansion slots; one processor-direct slot	<p>The Apple Internet Server Solution is a virtual World Wide Web (WWW) "server in a box"—an all-in-one WWW solution that consists of a Workgroup Server 6150/66, 8150/110, or 9150/120, and a CD-ROM that contains the software you need to get established on the WWW. This software includes:</p> <ul style="list-style-type: none"> <li>• WebSTAR server software from StarNine</li> <li>• BBEdit from Bare Bones Software, an HTML editor</li> <li>• Netscape single-user client software, from Netscape Communications, for viewing your content on the WWW</li> <li>• MacDNS software from Apple</li> <li>• Run-time versions of HyperCard, Claris FileMaker Pro, and Everyware Butler server software with sample data for each database</li> <li>• AppleSearch and AppleSearch CGI</li> <li>• Adobe Acrobat Pro</li> <li>• Clickable maps, e-mail, and database CGIs</li> <li>• Customizable WWW pages and forms</li> <li>• Apple RAID, Retrospect Remote,* and AppleShare Client for Windows</li> </ul>
<b>Storage</b>	Apple SuperDrive® floppy disk drive; 700MB internal hard disk; quad-speed CD-ROM drive; up to seven SCSI devices supported on one SCSI bus	Apple SuperDrive floppy disk drive; up to two 1GB, 2GB, or 4GB internal hard disks; quad-speed CD-ROM drive; optional 4-mm DAT drive with data compression (4GB to 14GB per 120-m tape); up to nine SCSI devices supported on two SCSI buses	Apple SuperDrive floppy disk drive; up to five 1GB, 2GB, or 4GB internal hard disks; quad-speed CD-ROM drive; optional 4-mm DAT drive with data compression (4GB to 14GB per 120-m tape); up to fourteen SCSI devices supported on two SCSI buses	
<b>Networking</b>	Built-in LocalTalk® and Ethernet connections; supports TCP/IP; AppleTalk networking software	Built-in LocalTalk and Ethernet connections; supports TCP/IP; AppleTalk networking software	Built-in LocalTalk and Ethernet connections; supports TCP/IP; AppleTalk networking software	
<b>Processor</b>	66-MHz PowerPC 601 RISC processor with integrated math coprocessor, 32K on-chip cache, and 256K second-level memory cache	110-MHz PowerPC 601 RISC processor with integrated math coprocessor, 32K on-chip cache, and 256K second-level memory cache	120-MHz PowerPC 601 RISC processor with integrated math coprocessor, 32K on-chip cache, and 1MB second-level memory cache	
<b>Memory</b>	16MB of RAM, expandable to 72MB	16MB of RAM, expandable to 264MB	16MB of RAM, expandable to 264MB	
<b>Ports</b>	Two serial ports, SCSI port, Apple Desktop Bus™ (ADB) port, monitor port, 16-bit stereo sound-input/output ports	Two serial ports, two high-performance SCSI ports (one external), ADB port, monitor port, 16-bit stereo sound-input/output ports	Two serial ports, two high-performance SCSI ports (one external), ADB port, monitor port, 16-bit stereo sound-input/output ports	
<b>Operating system</b>	System 7.5	System 7.5	System 7.5	<p>The Apple Internet Server Solution is a multiplatform solution, enabling access by all WWW clients, including Mac OS, Windows, and UNIX computers.</p>
<b>File/print server software</b>	AppleShare 4.1*	AppleShare 4.1*	AppleShare 4.1*	
<b>Other software included</b>	AppleShare Client for Windows; Apple RAID; Adobe Acrobat Reader; FileWave from Wave Research; Now Contact and Now Up•to•Date from Now Software; Server Manager* from Santorini; Viper Instant-Access from IT Design	AppleShare Client for Windows; Apple RAID; Adobe Acrobat Reader; FileWave from Wave Research; Now Contact and Now Up•to•Date from Now Software; Retrospect Remote* from Dantz Development; Server Manager* from Santorini; Viper Instant-Access from IT Design	AppleShare Client for Windows; Apple RAID; Adobe Acrobat Reader; FileWave from Wave Research; Now Contact and Now Up•to•Date from Now Software; Retrospect Remote* from Dantz Development; Server Manager* from Santorini; Viper Instant-Access from IT Design	

\*Available in some configurations.

## How do I make my network work faster?

It's easy.

If you're using LocalTalk cabling today, you'll gain a great speed increase from a simple upgrade to Ethernet cabling.

It's simple, because Ethernet compatibility is built into most Macintosh computers and all Workgroup Servers from Apple. The Ethernet data transfer rate is 40 times faster than LocalTalk, delivering dramatically faster data transfer over your network.

In most cases, all you have to do is replace cables and connectors.

And upgrading older computers that don't have built-in Ethernet connectors requires only that you add an Ethernet card and replace your LocalTalk cables and connectors with Ethernet cables and connectors.

Apple offers a full line of affordable Ethernet cards and cables that will bring higher speeds to your network.

For more information, see your authorized Apple reseller.

## Can I upgrade my earlier Workgroup Server?

Yes. Upgrade kits that include logic boards, system software, and all the workgroup productivity and server administration software described on pages 2 and 3 of this brochure are available for the Workgroup Server 8150 and 9150. For all upgrades, see your authorized Apple reseller.

## Whom can I ask about Workgroup Servers?

For pre- and post-sales information about Workgroup Server products, call the Apple Network Information Hotline at (408) 862-3385.

## How do I find an authorized Apple reseller?

For the name of your local Apple reseller, just call 1-800-538-9696.

## Does Apple have a World Wide Web home page?

Apple has several home pages you are invited to browse for product and support information:

- <http://www.apple.com> (for service and support)
- <http://www.info.apple.com> (for product information)
- <http://abs.apple.com> (for information on servers, server software, cards, and cables)

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